

APPENDIX K

UNIT CONVERSIONS

Volume

1 U.S. Gallon (gal) = 231 in³ = 0.1337 ft³
 1 barrel(s) (bbl) = 42 U.S. gal = 5.615 ft³
 1 bbl = 158.97 liter (L) = 0.159 m³
 1 U.S. gal = 3.785 L
 1 L = 0.26 gal
 1 tonne of oil = 1000 L = 1m³ = ~ 264 gal
 1 m³ = 6.29 bbl = 264.2 gal
 1 ft³ = 0.0283 m³ = 7.48 gal
 1 m³ = 10⁶ cm³ = 10³ L
 1 Imperial gal = 1.2 U.S. gal
 1 U.S. gal = 0.83 Imperial gal

Length

1 inch = 2.54 cm
 1 ft = 30.38 cm
 1 ft = 0.3048 m
 1 m = 3.2808 feet
 1 statute mile = 0.87 nautical mile (nm)
 1 mile = 1610 m = 5280 ft
 1 nm = 6076 feet
 1 km = 0.54 nm
 1 nm = 1.852 km = 1852 m
 1 nm = 1.15 statute miles
 1 micron = m x 10⁻⁶ = mm x 10⁻³
 1 fathom (6 ft) = 1.829 m
 1 m = 0.547 fathoms

Volume Rate

L/hr x 0.0063 = bbl/hr
 L/hr x 0.0044 = gpm
 tonnes/hr (or m³/hr) x 4.4 = gpm
 tonnes/hr x 6.3 = bbl/hr
 bbl/hr x 0.7 = gpm
 L/sec x 15.9 = gpm
 gpm x 34.29 = bbl/day
 m³/hr x 16.7 = L/min
 L/min x 0.06 = m³/hr
 gpm x 3.78 = L/min
 bbl/day x 0.11 = L/min
 bbl/day x 0.0292 = gpm

Distance Rate

1 knot = 1.69 ft/sec
 1 knot = 1.94 m/sec = 1.13 miles/hr
 ft/sec x 0.593 = knots
 m/sec x 1.94 = knots
 miles per hour (mph) x 1.5 = ft/sec
 knots (kts) x 51.4 = cm/sec

Area

1 hectare = 10000 m² = 100m²
 1 acre = 43560 ft² = 0.4047 hectares = 247 km²
 1 acre = 4047 m²
 1 hectare = 2.471 acres
 1 ft² = 0.0929 m²
 1 mile² = 2.59 km²
 1 nm² = 847 acres

Weight

1 pound (lb) = 0.45 kilograms (kg)
 1 kg = 2.2 lb
 lb/ft x 1.48 = kg/m
 kg/m x 0.672 = lb/ft
 1 metric ton = 1000 kg (~ 1 long ton)

From ExxonMobil , 2000